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(54) 名 稱：具有特殊構形肘支持部之椅子

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1  
[57] 申請專利範圍：

1. 一種具有特殊構形肘支持部之椅子，該椅子具有一座部、靠背及一扶手總成，其中：

該扶手總成包括一實質管狀之支柱(22)，一扶手(21)懸接地安裝於該支柱22及一肘支持表面(14)安裝於該扶手(21)；

該扶手總成進一步具有一扶手支持管件(1)係套接於該支持柱(22)並具有用以垂直調整之伸縮連接物(24)；

該扶手總成進一步具有至少一垂直轉動軸(23或a)俾供該扶手(21)轉動移動之用，該轉動軸設於該肘支持表面之中心外側，使得當該扶手21轉動時，該肘支持表面可水平橫向移動；及

該肘支持表面(14)包括一用以獨特保留每一使用者之肘於該肘支持表面上之裝置，使得該肘支持表面(14)可垂直與水平調整以適合使用該椅子之各別使用者。

2. 如申請專利範圍第1項所述之具有特殊構形肘支持部之椅子，其中：

該肘支持表面(14)實質為一直徑在10~18毫米間之圓墊(21)，此圓墊在其中心包括含保留手肘之裝置之凹處。

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3. 如申請專利範圍第1項所述之具有特殊構形肘支持部之椅子，其中：

該肘支持表面(14)係為一在其一邊呈橫向開口狀之凹槽，此凹槽界定用以保留一手肘之裝置。

4. 根據申請專利範圍第3項所述之具有特殊構形肘支持部之椅子，其中該扶手總成包括供該扶手轉動用之兩垂直軸a、b；其中至少一垂直軸偏離肘支持表面(14)中心。

5. 根據申請專利範圍第4項所述之具有特殊構形肘支持部之椅子，其中該扶手總成包括供該扶手轉動用之三垂直軸a、b、c；其中至少一垂直軸偏離於肘支持表面(14)中心。

6. 如申請專利範圍第5項所述之具有特殊構形肘支持部之椅子，其中：

該三垂直軸(a、b、c)中之第一軸(a)係由一樞軸(3)所形成且與扶手支持管件(1)樞接；

一第一架設板(5)係轉動地與該樞軸(3)相連；

該三垂直軸(a、b、c)中之第二軸

(b)係由安裝在該第一架設板(5)的樞軸(7)所形成：

一第二架設板(8)係轉動地安裝於該樞軸(7)：

該三垂直軸(a、b、c)中之第三軸(c)係由可轉動地安裝於該第二架設板(8)之一第二樞軸(10)所形成：以及

該扶手(21)可轉動地安裝於該第二樞軸(10)上。

7.如申請專利範圍第6項所述之具有特殊構形肘支持部之椅子，其中：

該第一及第二架設板(5、8)之間設有一軸承(6)。

8.如申請專利範圍第7項所述之具有特殊構形肘支持部之椅子，其中：

該第二架設板(8)及該扶手(21)之間設有一軸承(9)。

9.如申請專利範圍第8項所述之具有特殊構

形肘支持部之椅子，其中：

第一軸(a)與第二軸(b)之間，以及第二軸(b)與第三軸(c)之間的間距在30至60毫米之間。

10.如申請專利範圍第9項所述之具有特殊構形肘支持部之椅子，其中：

第一軸(a)與第二軸(b)之間，以及第二軸(b)與第三軸(c)之間的間距實質上是等長的。

10.圖示簡單說明：

第1圖說明一轉椅及本創作之扶手；

第1a圖說明肘支部之一頂視圖；

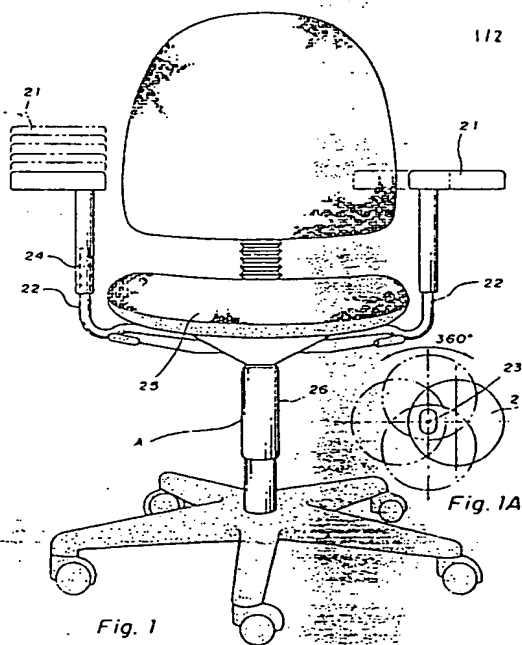
第2圖說明肘支部之一側視圖；

第3圖說明肘支部之一前視圖；

第4圖說明肘支部之一頂視圖；

第5圖說明肘支部之一示意圖；

第6圖說明肘支部之另一示意圖。



其中：

二端(b)之間，以及第  
之間的間距在30至60

9項所述之具有特殊

，其中：

二端(b)之間，以及第  
之間的間距實質上是

：本創作之扶手；

：一頂視圖；

：一側視圖；

：一前視圖；

：一頂視圖；

：一示意圖；

另一示意圖。

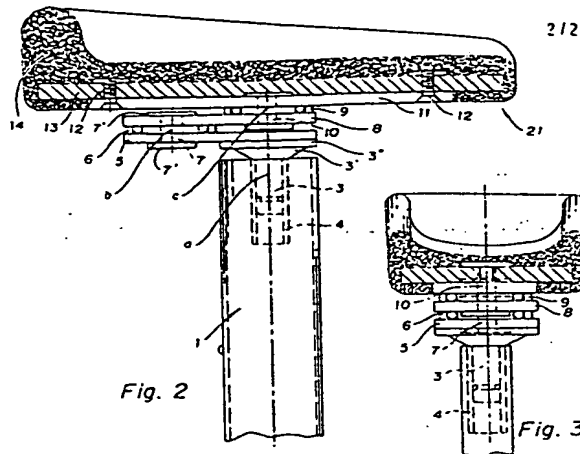


Fig. 2

Fig. 3

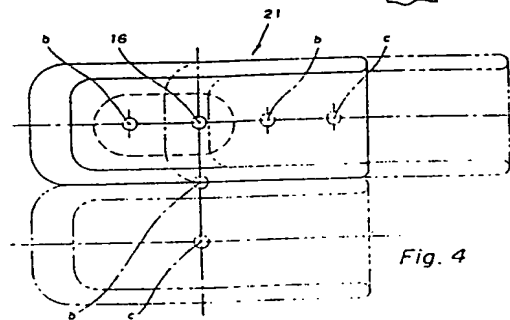


Fig. 4

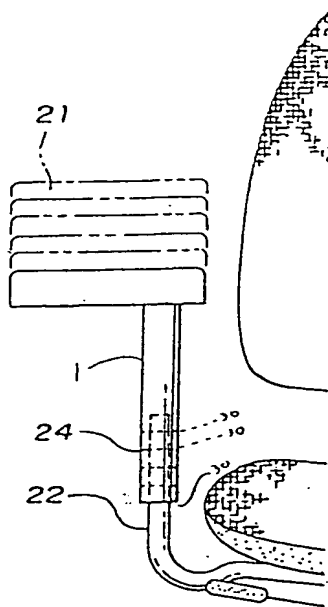


FIG. 5

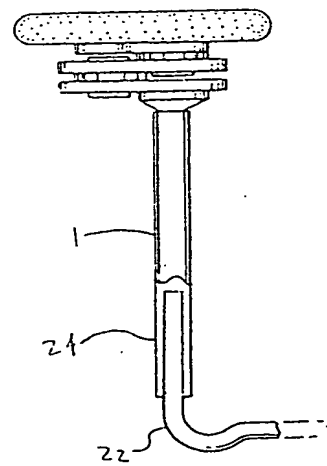


FIG. 6

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CHAIR WITH SPECIALLY SHAPED ELBOW SUPPORT

The invention relates to a chair adapted to provide support to the arms of a seated individual.

Figure 1 illustrates a swivel chair and arm rests  
5 of the invention.

Figure 1a illustrates a top view of the elbow support.

Figure 2 illustrates a side view of the elbow support.

10 Figure 3 illustrates a front view of the elbow support.

Figure 4 illustrates a top view of the elbow support.

A chair A is shown at Figure 1. Chair A is  
15 differentiated from known chairs in that each arm rest 21  
is exclusively used as an elbow support. Elbow support 21  
is adapted to the size of an elbow, between 10 and 18  
centimeters in diameter, and in the form of a circular  
bolster. Preferably, support 21 is 15 centimeters in  
20 diameter. Support 2 may also be in the form of a trough  
open on one side.

Support 21 is fastened on a substantially tubular  
support stay 22 which allows support 21 to rotate about a  
substantially vertical axis 23, preferably over a range  
25 of 360 degrees.

As shown in Figure 1a, axis 23 lies outside the  
center of the elbow support.

Support 21 is vertically adjustable by telescopic connection which may be arrestable.

Stay 22 is horizontally pivotable on an axis lying below sitting surface 25. This adjustment is preferably  
5 located in the vicinity of main axis 26.

Arm rest support tube 1 (Figure 2 and 3) is a substantially rectangular tube that receives bearing tube 4 which rotatably seats shaft end 3. End 3 forms a first axis a. On the upper side of end 3, a first mounting  
10 plate 5 is fastened at a first end by spacers 3' and 3". At the second end of plate 5, shaft 7 forms a second axis b. On shaft 7, a second mounting plate 8 is pivotally fastened. Shaft 7 is essentially a rivet with rivet heads 7'.

15 At the second end of plate 8, shaft 10 forms a third axis c to which arm rest 21 is pivotally fastened. Shaft 10 is similar to shaft 7 in that it is essentially  
~~a rivet with heads.~~

A bearing 6 separates plates 5 and 8. Bearing 9  
20 similarly separates plate 8 and arm rest 21. Bearings 6 and 9 permit mounting plates 5 and 8 to easily pivot.

The distances between axes a and b and axes b and c are preferably between 30 millimeters and 60 millimeters. The preferred distance is 40 millimeters  
25 with the respective distances being substantially equal.

Arm rest 21 comprises a covering plate 11 which is mounted to shaft 10. Plate 11 is attached by nuts 12 to plate 13. Plate 13 is preferably plywood. Bolstering

material 14 covers plate 13 so that preferably a unilaterally open, elongated supported trough is formed. Material 14 forms the support 21 which has a support surface adapted to the size of an elbow.

- 5           The arm rest support tube 1 is telescopically adjustable as shown in Figure 1. Each tube 1 may also be pivotally adjustable about a horizontal axis line below seat 25 (not shown). Figure 4 shows various positions of support 21 which are obtainable using the invention.
- 10          Reference line 16 corresponds to the starting position shown in Figures 2 and 3 in which axis a (shaft end 3) and axis c (rivet 10) are aligned. Intermediate positions are not shown.

82年5月24日修正/更正/補充

PROPOSED AMENDMENT TO THE CLAIMS

1. A chair of the type having a specially shaped elbow support, the chair having a seat, a backrest and an arm rest assembly wherein:

said arm rest assembly comprises a substantially tubular support stay (22), an arm rest (21) pivotally mounted to said support stay (22) and an elbow support surface (14) mounted to said arm rest (21);

said arm rest assembly further has an arm rest support tube (1) which is sleevedly connected to said support stay (22) with a telescopic connection (24) for vertical adjustment;

said arm rest assembly further has at least one vertical axis of rotation (23 or a) for rotational movement of said arm rest (21), said axis of rotation lying outside the center of said elbow support surface so that said elbow support surface can be displaced horizontally and laterally upon rotation of said arm rest (21); and

said elbow support surface (14) includes means for retaining exclusively an individual elbow thereon, whereby said elbow support surface (14) can be adjusted vertically and horizontally to accommodate each individual that uses said chair.

2. The chair of Claim 1, wherein said elbow support surface (14) is substantially a circular bolster (21)



with a diameter between 10 and 18 centimeters, and said bolster includes a depression in the center thereof which comprises said means for retaining an elbow.

3. The chair of Claim 1, wherein said elbow support surface (14) is in the form of a trough laterally open on one side which defines said means for retaining an elbow.

4. The chair of Claim 3, wherein said arm rest assembly includes two vertical axes (a, b) of rotation for said arm rest, at least one of said vertical axes being offset from the center of said arm rest support surface (14).

5. The chair of Claim 4, wherein said arm rest assembly includes three axes (a, b, c) of rotation for said arm rest, at least one of said vertical axes being offset from the center of said arm rest support surface (14).

6. The chair of Claim 5, wherein:

a first axis (a) of said three vertical axes (a,b,c) is formed by shaft (3) and pivoted to said arm rest support tube (1);

a first mounting plate (5) is rotatably mounted to said shaft (3);

a second axis (b) of said three vertical axes (a, b,c) is formed by a shaft (7) mounted to said first mounting plate (5);

a second mounting plate (8) is rotatably mounted to said shaft (7);

a third axis (c) of said three vertical axes (a,b,c) is formed by a second shaft (10) which is rotatably mounted to said second mounting plate (8); and

said arm rest (21) is rotatably mounted to said second shaft (10).

7. The chair of Claim 6, wherein said first and second mounting plates (5,8) are provided with a bearing (6) therebetween.

8. The chair of Claim 7, wherein said second mounting plates (8) and said arm rest (21) are provided with a bearing (9) therebetween.

9. The chair of Claim 8, wherein the distance between said first axis (a) and said second axis (b) and between said second axis (b) and said third axis (c) is 30-60-millimeters.

10. The chair of Claim 9, wherein the distances between said first axis (a) and said second axis (b) and between said second axis (b) and said third axis (c) are of substantially equal length.

## ABSTRACT

Chair (A) is provided with arm rests (21) which are used exclusively as elbow supports. Arm rests (21) are adapted to the size of an elbow. Each support (21) is adjustable vertically and horizontally. The horizontal adjustment is accomplished by a series of disks (5, 8) pivotally connected at axes (a, b, c) to support (21).

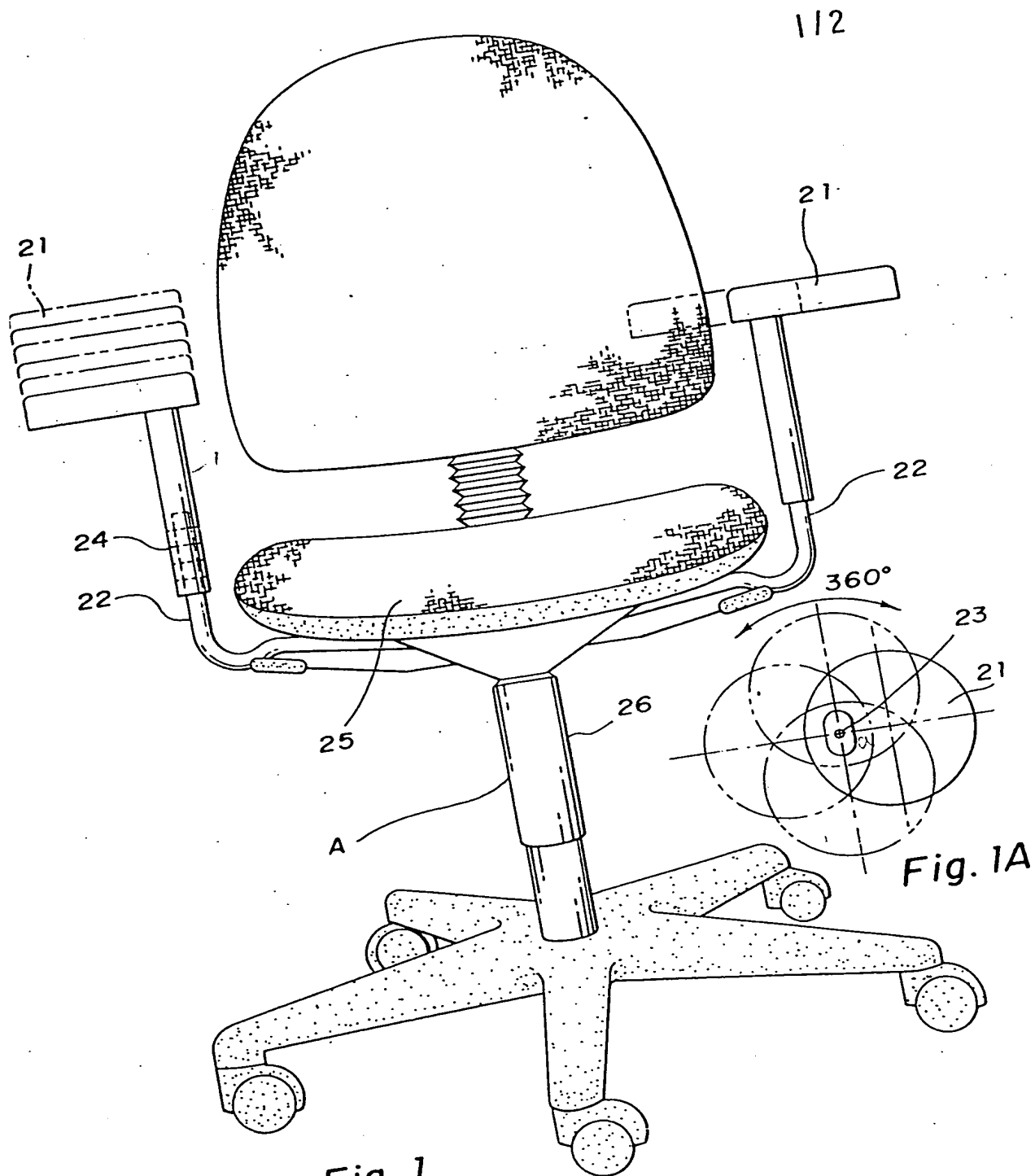


Fig. 1

Fig. 1A

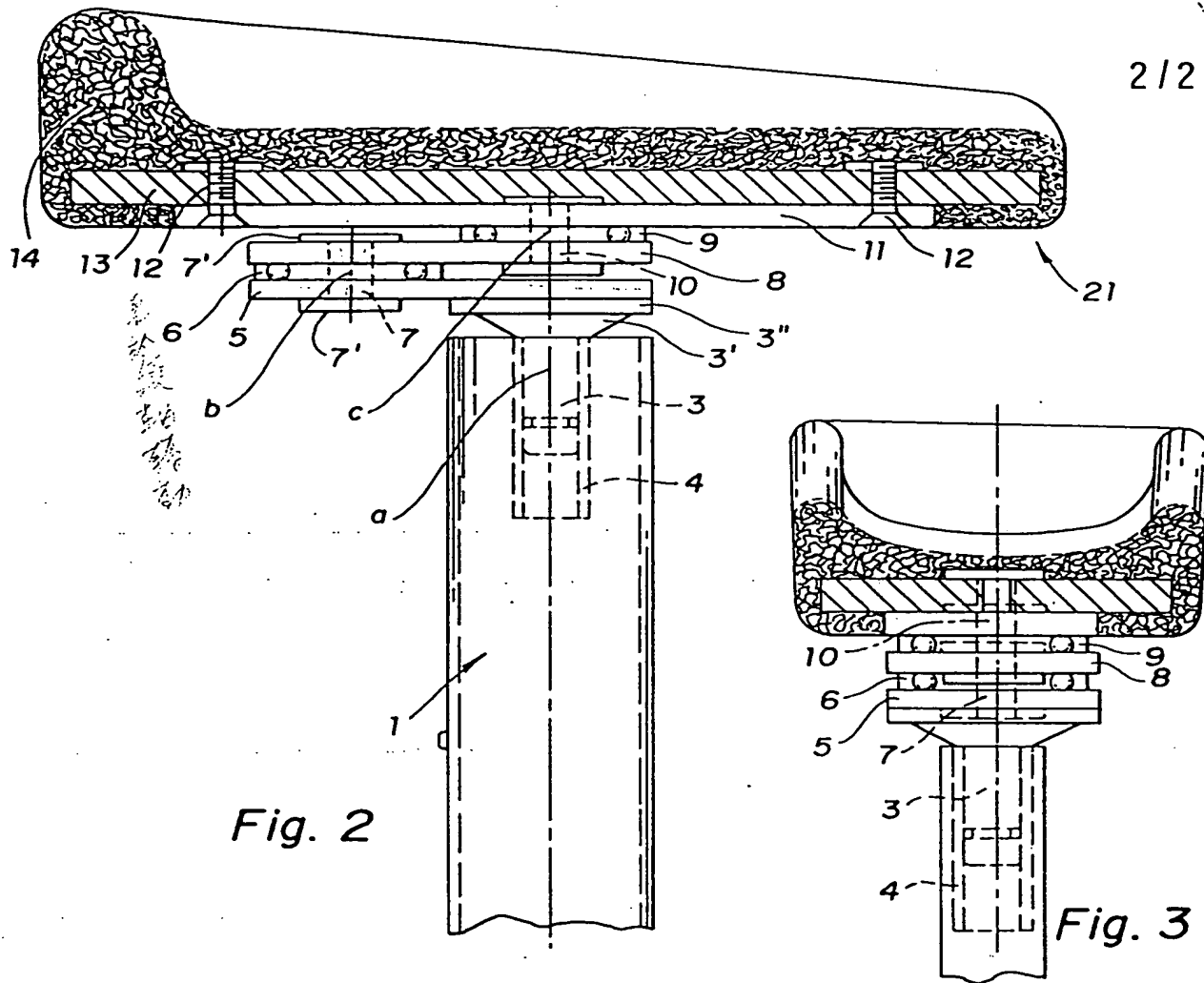


Fig. 2

Fig. 3

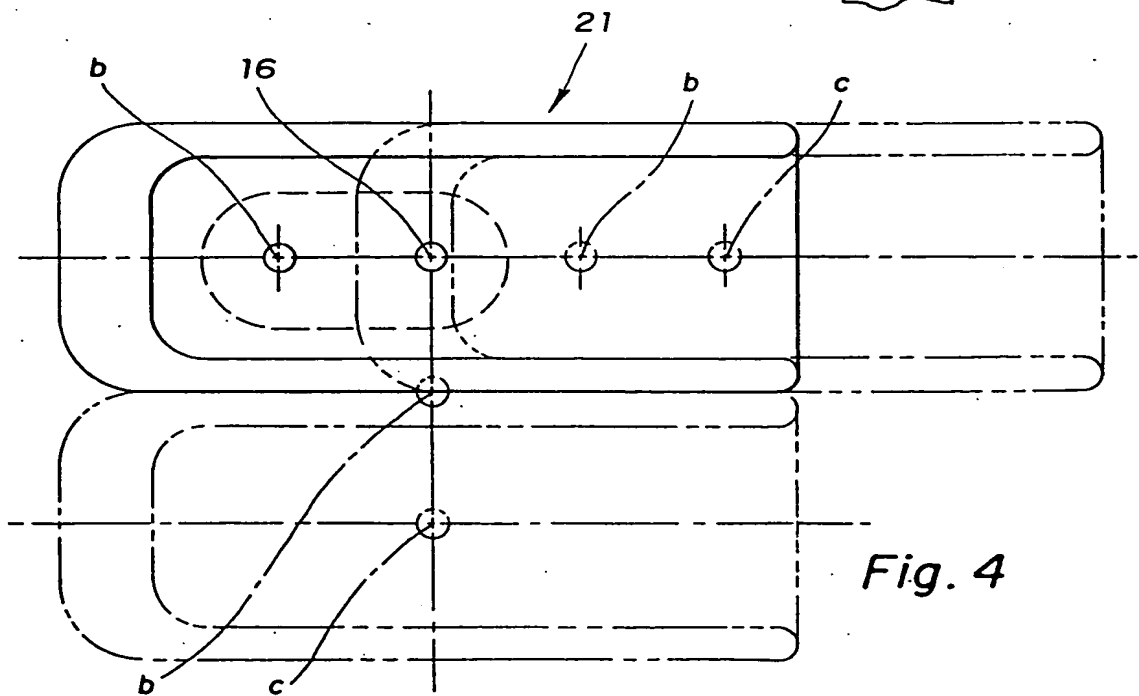


Fig. 4